

# ***Amblyopinodes amazonicus* new species (Coleoptera:Staphyliniidae) a parasite of rodents from Pakitza, Perú**

RICARDO GUERRERO

*Instituto de Zoología Tropical  
Facultad de Ciencias - U.C.V.  
Apdo. 47058, Caracas 1041A, Venezuela*

## **ABSTRACT**

*Amblyopinus amazonicus* n.sp., a parasite of *Oryzomys* spp from Pakitza, Perú is describrd. The species is related with the *piccus* group based on the sclerotized movable piece, and differs from it in lacking claviform setae in sternum VI; also is distinguishable from *A. major* in the reduced number of teeth on ventral margin of parameres.

## **INTRODUCTION**

*Amblyopinodes* Seevers, 1955 contains approximately 15 morphotypes, species and subspecies, (Barrera & Machado-Allison, 1965; Machado-Allison & Barrera, 1972) mostly parasites in cricetids from Southern South America (Argentina, Southern Brazil, Paraguay and Uruguay), peruvian Andes, Guyana Highlands in Venezuela and Northeast Brazil, consequently the group is found in montane habitats and temperate or even cold climates (Machado-Allison y Barrera, 1972). Searching for parasites of small mammals in Pakitza, peruvian Amazonas, some *Amblyopinini* were found, the first in the amazonas region which belong to a new species described as follows.

The material is deposited in the Colección de Parasitología, Museo de Biología, Universidad Central de Venezuela, Caracas (CP-MBUCV), Departamento de Entomología, Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima (MUSM), and National Museum of Natural History, Smithsonian Institution, Washington, (USNM).

## DESCRIPTIONS

*Amblyopinodes amazonicus* new species

Males: 7.7-8.7 mm

Female: 7.7 mm

**Description:** *Male: Head:* Labrum small, arcuated, with 8-10 short but strong setae on each side, 2 longer. Eyes small, with facetation hardly distinguishable; ocular margin with 4-5 stout setae, one longer. Antennae relatively long, with first segment 40% longer than second; antennal groove wide, deep, without setae on ventral margin. Submenton large, wide, with anterior margin very slightly concave, and 3-5 small setae on each side, and 2 innermost larger than others. Gula long with pair of macrosetae, close to each other, about 6-12 setae on each side of anterior half of which anterior-interior pair longer than others. *Thorax:* Pronotum wide, large, with protruding anterior angles; posterior margin slightly concave in middle, with 4 macrosetae on each side, outermost in angle. Total length of pronotum approximately one-half distance between posterior angles and equal to distance between anterior angles. Elytra covered by uniformly long setae and wider than long. Prosternum with anterior margin concave, 2 characteristic macrosetae, and 20-30 small setae on each side. Mesosternum with apex slightly

Table 1.- Abdomen chaetotaxy

		Left side				Right side			
		H1	P1	P2	A	H	P1	P2	A
T	II	2	2	2	2	2	2	2	2
E	III	2	2	2	3	2	2	2	2
R	IV	1	2	2	2	1	1	2	2
G	V	1	1	2	2	2	1	2	2
I	VI	1	1	2	2	2	1	2+1	2
T	VII	2+12	1+1	2+1	2+1	1+1	1	2+1	2+1
E	VIII	3	2	4	—	3	3	2	—
S									
T	III'	9	8	10	11	7	7	9	11
E	IV'	5	4	5	6	6	3	6	6
R	V'	2	2	2	1	2	2	2	1
N	VI	1+1	2+1	3+1	4+2	2+1	3+1	3+1	4+2
I	VII	2+1	3+1	4+2	4+2	1+1	3+2	4+2	4+2
T	VIII	6	7	7	7	6	8	7	8
E									
1. H = Holotype P1 = Paratype ex <i>O. capito</i> P2 = Paratype ex <i>O. nidius</i> A = Allotype 2. marginal + submarginal setae 3. claviform setae									

projected between coxae; chaetotaxy consisting of 5 long and 10-12 shorter setae. Metasternum with sinus deep and long setae limited to basal two-thirds. *Legs*: Prothoracic legs as in other species of genus; V tarsal segment of mesothoracic legs with three pairs of strong setae, V tarsal segment of metathoracic legs with four pairs of stout setae, plus three spiniform setae. *Abdomen*: Tergites II and III with 2 macrosetae on each side; IV, V, and IV with 1-2 rarely 3; VII 1-2 marginal and 1 submarginal; VIII with 1 marginal and 2-4 submarginals on each side. Sternites III to V with 7-10, 3-6, and 2 claviform setae respectively. Sternite VI with 1-3 marginal and 1 submarginal macro; VII with 1-4 marginals, and 1-2 submarginal macrosetae; VIII with 6-8 macrosetae on each side and sinus wide and deep as in *A. adae* and *A. guimaraesi* (individual variations on table 1). *Modified segments and genitalia*: Tergite IX subtriangular, protruding posterior margin with 1 long seta on each angle. Sternite IX long with straight posterior margin, cover by small setae. Cerci strong, with long mostly marginal setae. Phallic organ with long, flat,

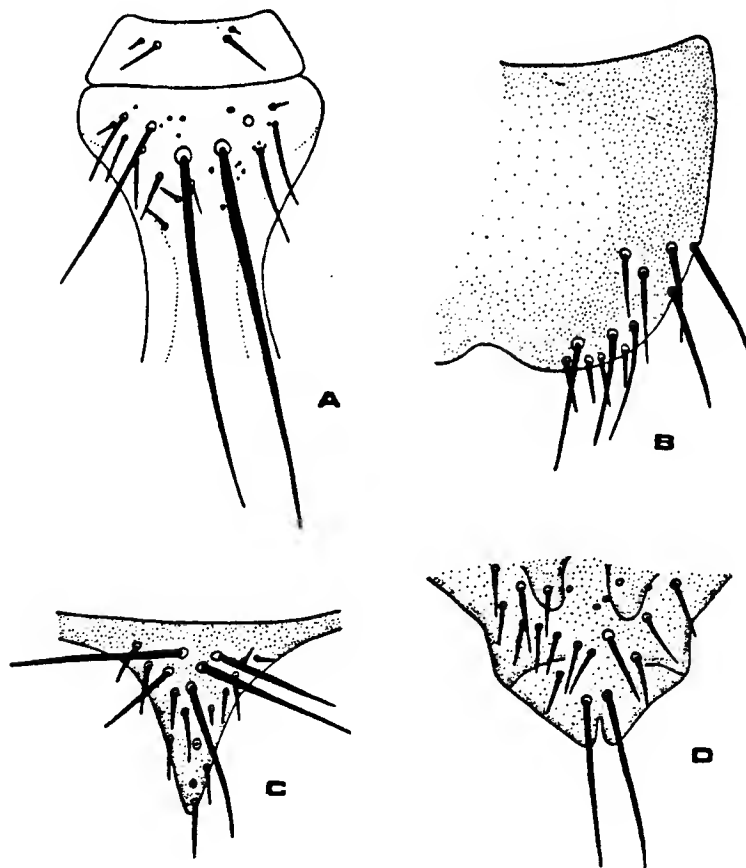
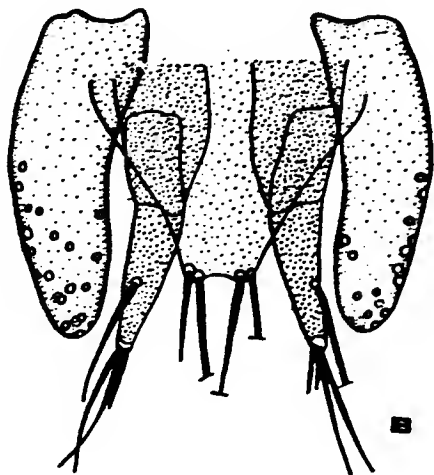
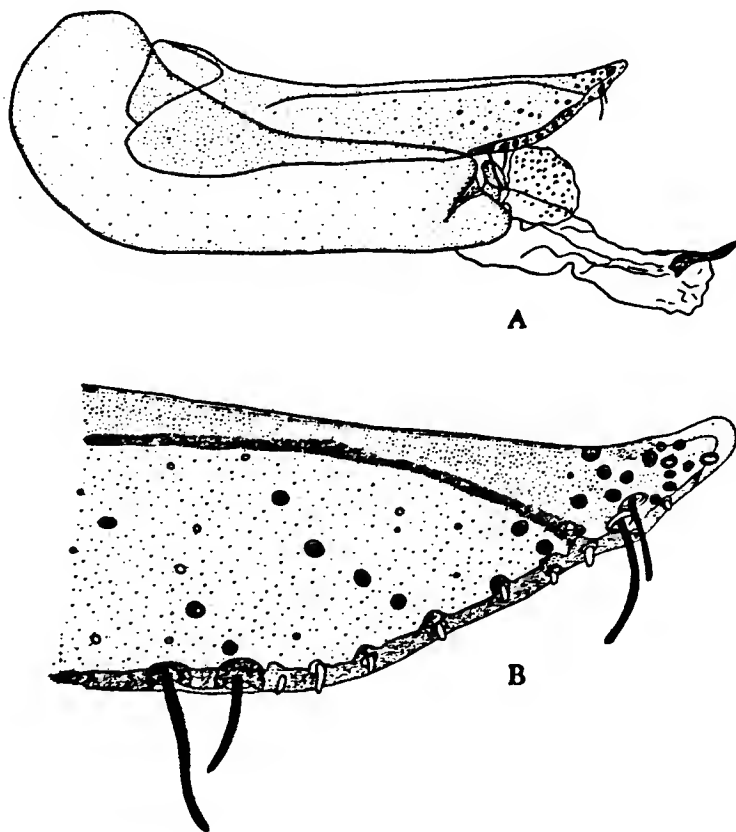


Fig. 1.— *Amblyopinodes amazonicus*, new species: A, gula and submentum; B, male sternite VIII, omitting surface setae; C, Mesosternum; D, Metasternum.

Fig. 2.— *Amblyopinodes amazonicus*, new species:  
A, Phallic organ; B,  
Apex of parameres.

sclerotized parameres;  
apex rounded and  
elevated. Ventral setae  
of parameres short, distal  
pair close to apex.  
Ventral margin with 5-  
11 marginal teeth.  
Movable sclerotized  
piece large, with apical  
margin striated, almost  
parallel margins as in *A.*  
*piceus*.

**Female:** Stronger  
than male. Chaetotaxy  
of tergites and sternites  
in Table 1. Cerci slender.  
Coxites slender, long,  
and surpassing apex of  
cerci, with two long and  
two shorter apical



macrosetae in each one. Tergite IX  
slightly concave with 2 apical setae of  
different length on each corner.

**Holotype:** Male ex *Oryzomys*  
*capito* (Rodentia: Cricetidae), Pakitza,  
Madre de Dios, PERU, February 1993  
(MUSM).

**Allotype:** Female, same data as  
holotype.

**Paratype:** Male same data as  
holotype but in CP-MBUCV.

**Paratype:** Male same data as  
holotype but ex *Oryzomys nitidus*, in  
USNM.

Fig. 3.— *Amblyopinodes amazonicus*, new  
species: A, Sclerotized movable piece,  
holotype, paratype ex *O. capito*, and  
paratype ex *O. nitidus*; B, Female tergite IX,  
coxites, and cerci.

**Erymology.**— Latin, "from Amazonas", the species constitutes the first record of the genus for the amazonian basin.

**Remarks.**— Machado-Allison (1963) in his paper established 4 groups of species, among these the group I containing *Amblyopinodes piceus piceus* (Brethés, 1926) and *A. p. distinctus* Machado-Allison, 1962, characterized by having claviform setae in four sternites, III to VI, the other species have only three by the absence of claviform setae on sternite VI. Later Machado-Allison and Barrera (1972) described *Amblyopinodes major*, with the movable sclerotized piece similar to *piceus*, but having claviform setae in sternites III to V. *A. amazonicus* n. sp. is related to *A. piceus* group, *A. major* and *A. adae* Machado-Allison, 1962; by the shape of the movable sclerotized piece but distinguishable of *A. p. piceus* and *A. p. distinctus* by the absence of claviform setae on sternite VI; *A. major* is bigger, the phallic organ less massive, parameres have 23 marginal and submarginal teeth (5-11 in *amazonicus*) and the apex of parameres has a couple of macrosetae well separated but in *amazonicus* the macrosetae are close; *A. adae* differs by chaetotaxy of meso and metasternal processes and the shape of parameres.

## ACKNOWLEDGEMENTS

Field work in Peru was funded by BIOLAT program of the National Museum of Natural History, Smithsonian Institution. This is the contribution No. 85 of the Smithsonian Institution's Biological Diversity in Latin America (BIOLAT) Program.

## LITERATURE CITED

Barrera, A. & C.E. Machado-Allison, 1965. *Coleópteros ectoparásitos de mamíferos*. Ciencia (México) 23:201-208.

Machado-Allison, C.E. 1962. Nuevos estafilínidos parásitos de roedores y clave para las especies del género *Amblyopinodes* Seevers, 1955 (Col. Staphylinidae). — Papéis Avulsos do Departamento de Zoológia. São Paulo 15:81-90.

Machado-Allison, C.E., 1963. Revisión del Género *Amblyopinodes* Seevers, 1955 (Coleoptera, Staphylinidae). — Acta Biológica Venezuelica 3:371-416.

Machado-Allison, C.E., & Alfredo Barrera. 1972. Venezuelan *Amblyopinini* (Insecta: Coleoptera, Staphylinidae). — Brigham Young University Science Bulletin, Biological Series 17:1-14.

# MANU

*The Biodiversity  
of Southeastern  
Peru*

*La Biodiversidad  
del Sureste del  
Perú*

Edited by

Don E. Wilson  
Abelardo Sandoval

**150**  
1846-1996  
Smithsonian  
Institution

  
NATIONAL MUSEUM of  
NATURAL HISTORY  
SMITHSONIAN INSTITUTION

  
editorial  
horizonte

© 1996 by the Smithsonian Institution  
All rights reserved  
OFFICE OF BIODIVERSITY PROGRAMS, NATIONAL MUSEUM OF NATURAL HISTORY  
SMITHSONIAN INSTITUTION  
10th & Constitution Ave. N.W., MRC 180, Washington, D.C. 20560

**Printed in Peru by Editorial Horizonte**  
Av. Nicolás de Piérola 995, Lima 1. Tel. 5114-279364, Fax: 5114-274341

**ISBN 1-56098-710-3**  
Library of Congress Catalog information is available

Cover photographs: Chip Clark, National Museum of Natural History  
Cover design and copy editor: Juan Damonte